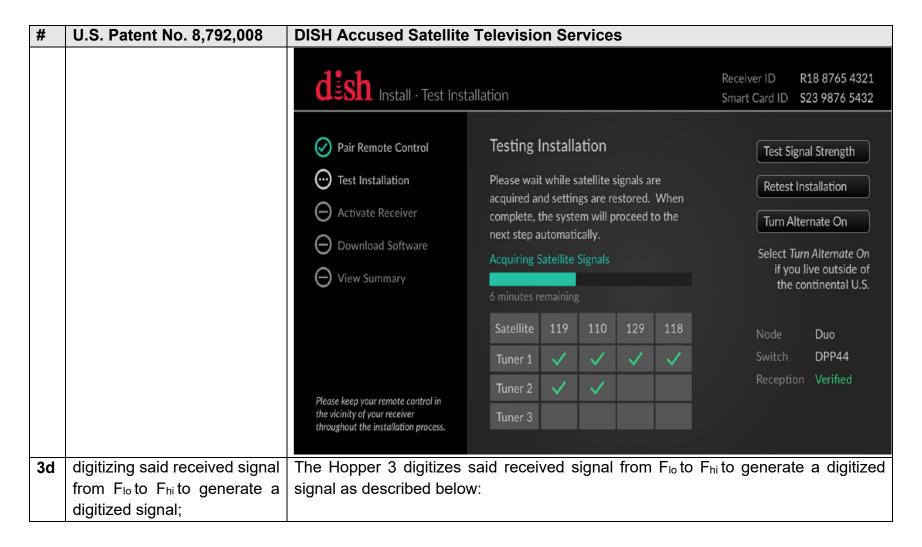
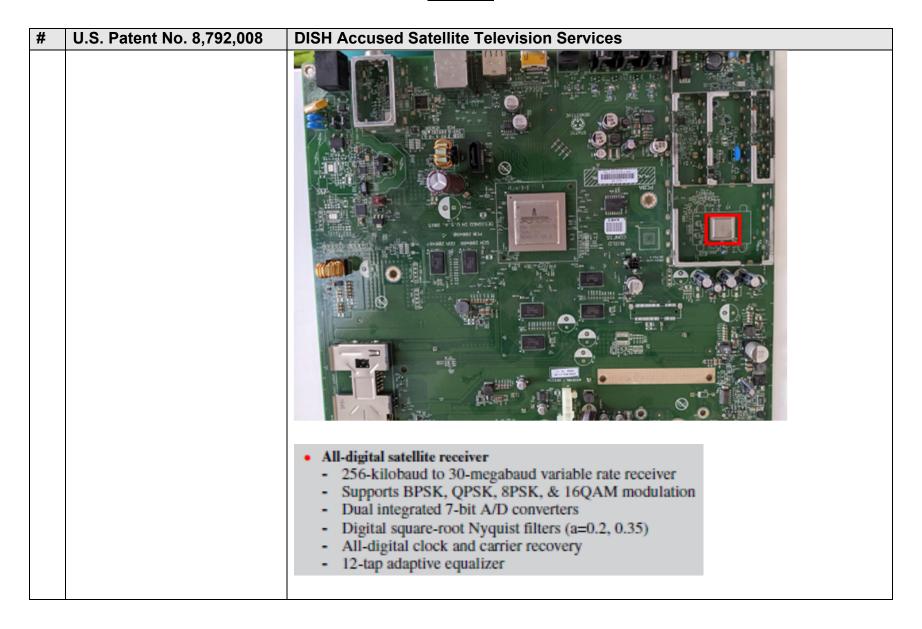
EXHIBIT F

Infringement of U.S. Patent No. 8,792,008 by DISH Accused Satellite Television Services

#	U.S. Patent No. 8,792,008	DISH Accused Satellite Television Services
3a	A method comprising:	The Accused Satellite Television Services perform the claimed method utilizing, for example, monitoring devices such as the Hopper 3. By way of example, the Hopper 3 is charted herein. Your new Hopper® 3 receiver is a Whole-Home HD DVR that offers full digital video recording functionality, including pausing live TV, to every TV in your house that is part of your Whole-Home DVR system. The Hopper 3 receiver is the hub for all things entertainment. It is an HD DVR that provides the equivalent of 16 tuners, allowing you to record multiple HD channels at once and at any time and play them back in any room in your home.
3b	performing by one or more	The Hopper 3 has one or more circuits as described below:
	circuits:	

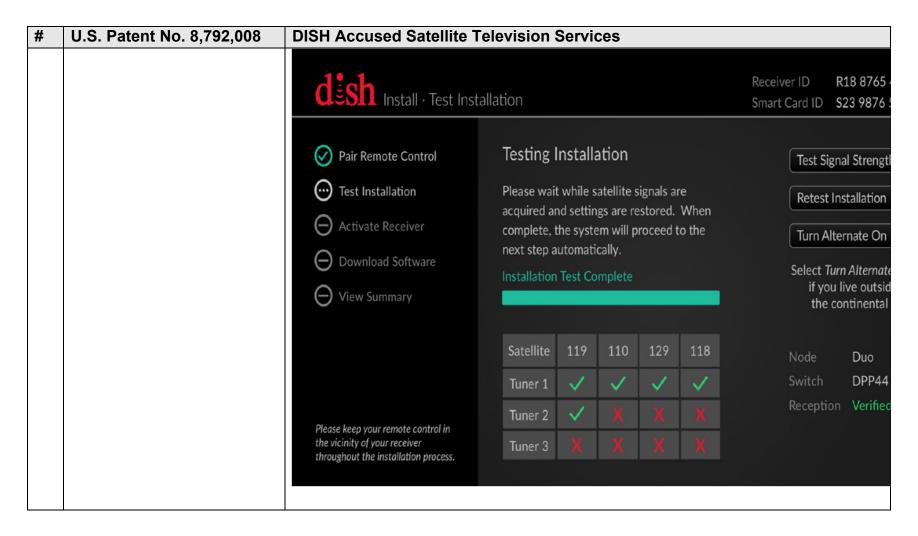
#	U.S. Patent No. 8,792,008	DISH Accused Satellite Television Services
3c	receiving a signal having a	The Hopper 3 receives a signal having a bandwidth that spans from a first frequency,
	bandwidth that spans from a	F _{lo} , to a second frequency, F _{hi} , wherein said signal carries a plurality of channels as
	first frequency, F _{lo} , to a	described below:
	second frequency, F _{hi} ,	
	wherein said signal carries a	
	plurality of channels;	





#	U.S. Patent No. 8,792,008	DISH Accused Satellite Television Services
		Technology Advantages:
		 <u>Drives future TV:</u> leapfrogs current analog architecture by moving to digital and supporting up to
		24 minimally spaced channels; opens up the ability to stream independent HD broadcast
		streams and IP services from a single cable to multiple connected devices, delivering next-
		generation satellite TV.
		 <u>Simplifies installation and upgrades</u>: Broadcom's stacked channel technology allows single
		cable installation, which significantly reduces the cost and complexity for installs and upgrades
		with better home theater aesthetics for subscribers.
		 <u>Full-Band Capture (FBC)</u>: Broadcom's digital tuning technology digitizes the entire spectrum
		enabling more efficient and flexible distribution of video streams and IP services.
		Lower system cost: replaces multiple analog ODU chips with a single lower cost mixed signal
		chip.
3e	selecting a first portion of said	The Hopper 3 selects a first portion of said digitized signal as described below:
	digitized signal;	
		Your new Hopper® 3 receiver is a Whole-Home HD DVR that offers full digital video
		recording functionality, including pausing live TV, to every TV in your house that is
		part of your Whole-Home DVR system. The Hopper 3 receiver is the hub for all things
		entertainment. It is an HD DVR that provides the equivalent of 16 tuners, allowing
		you to record multiple HD channels at once and at any time and play them back in
		any room in your home.
25	colorting a second partial of	•
3f	selecting a second portion of	The Hopper 3 selects a second portion of said digitized signal as described below:
	said digitized signal; and	
		Your new Hopper® 3 receiver is a Whole-Home HD DVR that offers full digital video
		recording functionality, including pausing live TV, to every TV in your house that is
		part of your Whole-Home DVR system. The Hopper 3 receiver is the hub for all things
		entertainment. It is an HD DVR that provides the equivalent of 16 tuners, allowing
		you to record multiple HD channels at once and at any time and play them back in
		any room in your home.

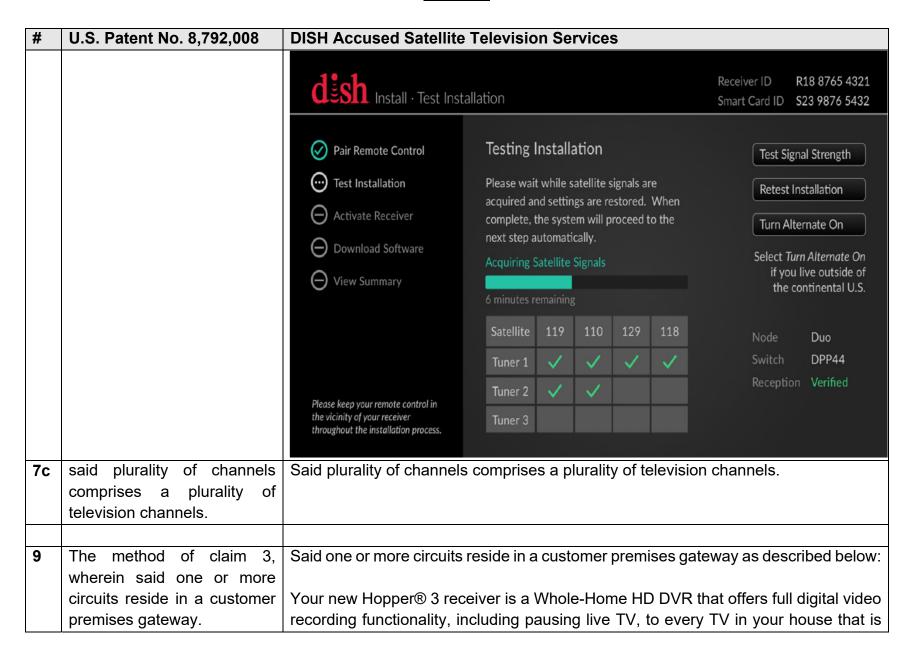
#	U.S. Patent No. 8,792,008	DISH Accused Satellite Television Services
3g	concurrently outputting said selected first portion and said selected second portion,	The Hopper 3 concurrently outputs said selected first portion and said selected second portion as described below:
	wherein:	Your new Hopper® 3 receiver is a Whole-Home HD DVR that offers full digital video recording functionality, including pausing live TV, to every TV in your house that is part of your Whole-Home DVR system. The Hopper 3 receiver is the hub for all things entertainment. It is an HD DVR that provides the equivalent of 16 tuners, allowing you to record multiple HD channels at once and at any time and play them back in any room in your home.
3h	said selected first portion is output to a signal analyzer which analyzes said selected first portion to determine one or more characteristics of the received signal, and which reports said determined one or more characteristics to a source of said received signal; and	The Hopper 3 outputs said selected first portion to a signal analyzer which analyzes said selected first portion to determine one or more characteristics of the received signal, and which reports said determined one or more characteristics to a source of said received signal as described below:



#	U.S. Patent No. 8,792,008	DISH Accused Satellite Television Services
		Audio/Video Output High-quality standard-definition connection to the TV audio and video input Digital Audio Optical connection to a high-quality digital sound decoding system Remote Antenna Connects to a UHF-2G remote control antenna
		COLON HOUSE CAN DESCRIPTION OF THE PROPERTY OF
		YPbPr/ Component Output Optional connection to your high-definition TV video input HDMI® Output Provides high- definition digital audio and video to the TV USB Ports Connects to multimedia devices, such as an external hard drive Ethernet Connects to a broadband home network Phone Jack Connects to a broadband home network
		Receiver Tests
		The Customer Service Representative may ask you to access the Diagnostics screen. Remember to have an active phone line or broadband Internet connected to your receiver.
		1 Press the MENU button, select the Settings tile, then Network Setup, and then Tests. The Network Setup Tests screen contains various tests that a DISH Customer Service Representative may ask you to initiate for your receiver:
		 Test Connection: Tests for a valid receiver telephone connection. Call Out: If "No Dial Out Pending" is displayed, the receiver does not need to have its smart card records updated. View Counters: Shows you a list of diagnostic counters. Use PAGE UP and PAGE DOWN to scroll through the list of counters displayed, if applicable. Send Status: Sends data about your system to DISH for analysis. This should be performed only as directed by a DISH Customer Service Representative. HDMI: Select an available HDMI connection analysis from the list and test data will be displayed on the right. Tests should be performed as directed by DISH instructions.

#	U.S. Patent No. 8,792,008	DISH Accused Satellite Television Services
3i	said selected second portion	The Hopper 3 outputs said selected second portion to a data processor for recovery
	is output to a data processor	of data carried on one or more of said plurality of channels as described below:
	for recovery of data carried	
	on one or more of said plurality of channels.	

#	U.S. Patent No. 8,792,008	DISH Accused Satellite Television Services
		Key Features of the Broadcom® BCM7445 Ultra HD SoC
		 Brahma15 21,000 DMIP CPU, four 1080p30 real-time transcoders and HEVC compression Delivers resolution up to 4096 x 2160p60 Web domain security, an industry leading hardware security oversight to separate Internet services from premium broadcast content Simultaneously delivers four transcoded HD video streams over IP for content on any screen
		Your new Hopper® 3 receiver is a Whole-Home HD DVR that offers full digital video recording functionality, including pausing live TV, to every TV in your house that is part of your Whole-Home DVR system. The Hopper 3 receiver is the hub for all things entertainment. It is an HD DVR that provides the equivalent of 16 tuners, allowing you to record multiple HD channels at once and at any time and play them back in any room in your home.
7a	The method of claim 3, wherein:	See above.
7b	said received signal is a satellite television signal output by a low noise block downconverter; and	Said received signal is a satellite television signal output by a low noise block downconverter as described below:



#	U.S. Patent No. 8,792,008	DISH Accused Satellite Television Services
		part of your Whole-Home DVR system. The Hopper 3 receiver is the hub for all things entertainment. It is an HD DVR that provides the equivalent of 16 tuners, allowing you to record multiple HD channels at once and at any time and play them back in any room in your home.
		Joey® receivers (Joey®, SuperJoey®, Wireless Joey®, 4K Joey™) connect to other TVs in your home and link to the Hopper 3 system, creating a Whole-Home DVR network. It supports all of the features of the Hopper 3 (with the exception of Picture-In-Picture) and offers an identical user interface as the Hopper 3. You can connect a Joey receiver to a high-definition or standard-definition TV.
10	The method of claim 3, wherein a bandwidth and/or center frequency of said selected first portion is configurable during operation of said one or more circuits.	Upon information and belief, the Hopper 3 configurably selects a bandwidth and/or center frequency of the selected first portion of the digitized signal.